Claims

What is claimed is:

1. A fuel–driven setting tool for driving fastener elements comprising one of nails, bolts, and pins into a substrate having a setting piston (13) guided in a piston guide (12) and displaceable using the combustion energy of a propellant and having a voltage source for supplying an electrical consumer on the setting tool, wherein the voltage source has a generator device (30, 40) for transforming setting energy from the combustion of the propellant into electrical energy.

2. The setting tool of claim 1, wherein the generator device (30) transforms kinetic energy into electrical energy.

3. The setting tool of claim 1, wherein the generator device (40) transforms heat energy into electrical energy.

4. The setting tool of claim 1, wherein the generator device (30) has a coil arrangement (31) comprising magnetic elements (32) and associated coils (33) comprised of electrically conductive material, wherein the magnetic elements (32) co-operate with the setting piston (13).

5. The setting tool of claim 4, wherein the coil arrangement (31) is electrically connected with a control device (34).

6. The setting device of claim 5, wherein the control device (34) has a rectifier (35) and a d.c./d.c. transformer (36).

7. The setting tool of claim 4, wherein the magnetic elements (32) are piston mounting means for temporarily holding the setting piston (13) at a combustion chamber (14).

8. The setting tool of claim 1, wherein the generator device (40) has an arrangement (41) of Peltier elements (43), and wherein the arrangement (41) of Peltier elements (42) is thermally coupled to the combustion chamber (14) of the setting tool (10).

9. The setting tool of claim 8, wherein a plurality of Peltier elements (42) are arranged between insulators (43) in a plurality of layers (45).

10. The setting tool of claim 8, wherein the arrangement (41) of Peltier elements (42) is electrically connected to a control device (44).

11. The setting tool of claim 10, wherein the control device (44) has a d.c./d.c. transformer (46).